



10TH ANNUAL
Nebraska
Wind & Solar
CONFERENCE & EXHIBITION
PRESENTED BY **NEXtera**
ENERGY 
RESOURCES

Nebraska Solar Development: A Tale of Two Projects

November 14th, 2017

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NPPD – 258kW



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Central City – 500kW



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Aurora— 538kW



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Gothenburg – 500kW



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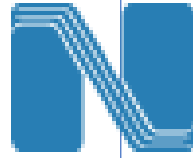
Fremont – 1.55 MW



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Lexington



Nebraska Public Power District
Always there when you need us

Aurora

Started in 2015

- NPPD Wholesale Customer
- Permitted to enter into a PPA

- NPPD Retail Customer
- Anything over 25kW enter under the Buy-Sell Solar Rider



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- Allowed 10% of the City's load to be renewable production
- Had City owned land available near suitable infrastructure
- Needed to make sure that the NPPD substation had the capacity to handle generation

June 2015 – Received interval data from NPPD on City consumption

June 2016 – Began financial and technical diligence

September 2016 – NTP

May 2017 – Project Live



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- Locked-in energy rate with 0% escalation for a 25-year term with finance partner Sol Systems
- Demand savings are dependent on solar production vs. peak demand times



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Lexington – 3.91MW



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water



energy



lighting



consulting



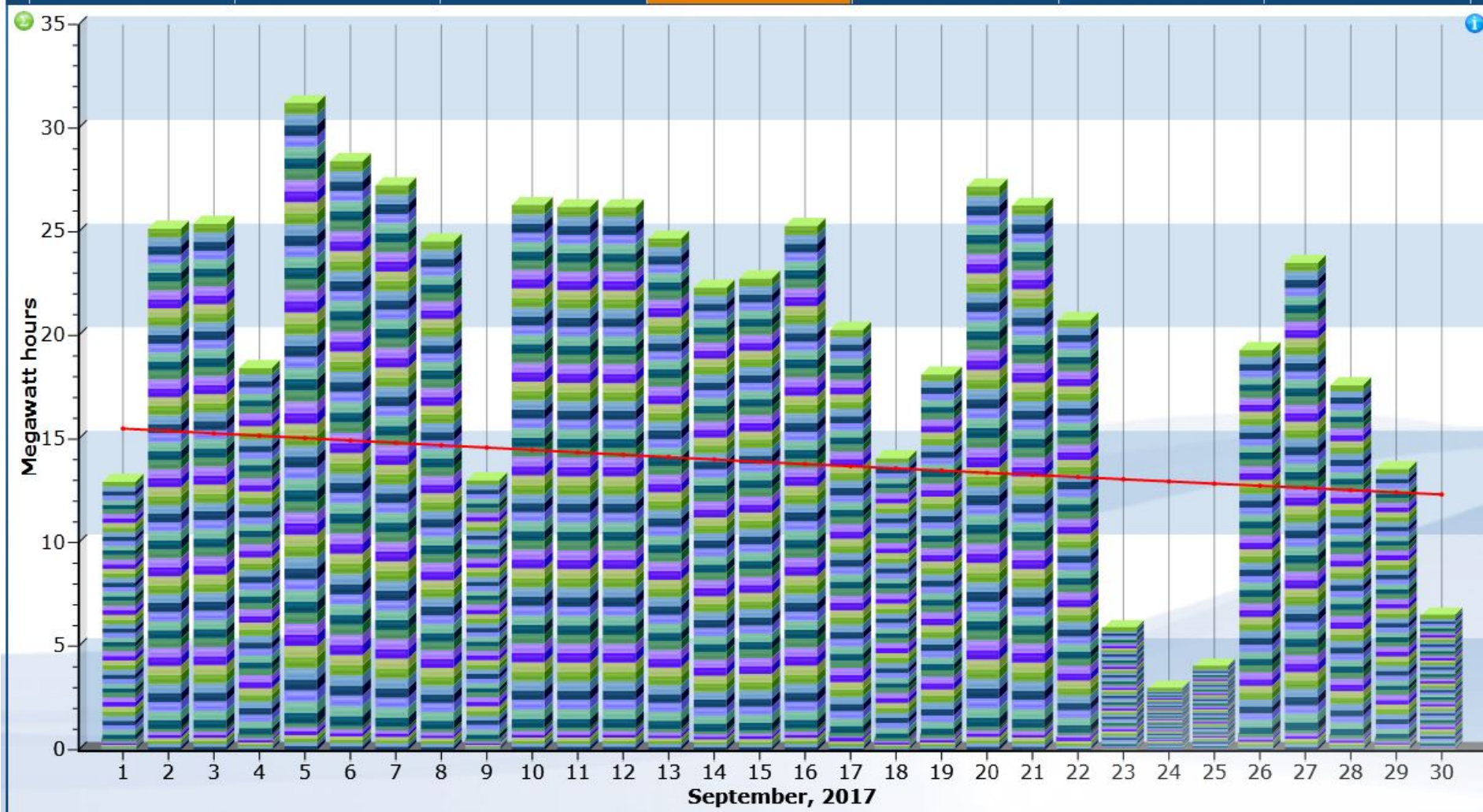
Lexington – 3.91MW



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Energy Ratio		Production and Estimate	Production and Expected	Yield	Cumulative Energy	
Energy Production Comparison		Maximum power output	Performance Ratio	Power vs. Expected	Production & Model	
Received & Delivered		Site Performance Index	Uptime	Performance Histogram		
Day	Five day	Week	Month	Year	Lifetime	Custom



Now
445
W

Today
17.6
MWh

This Month
79.2
MWh

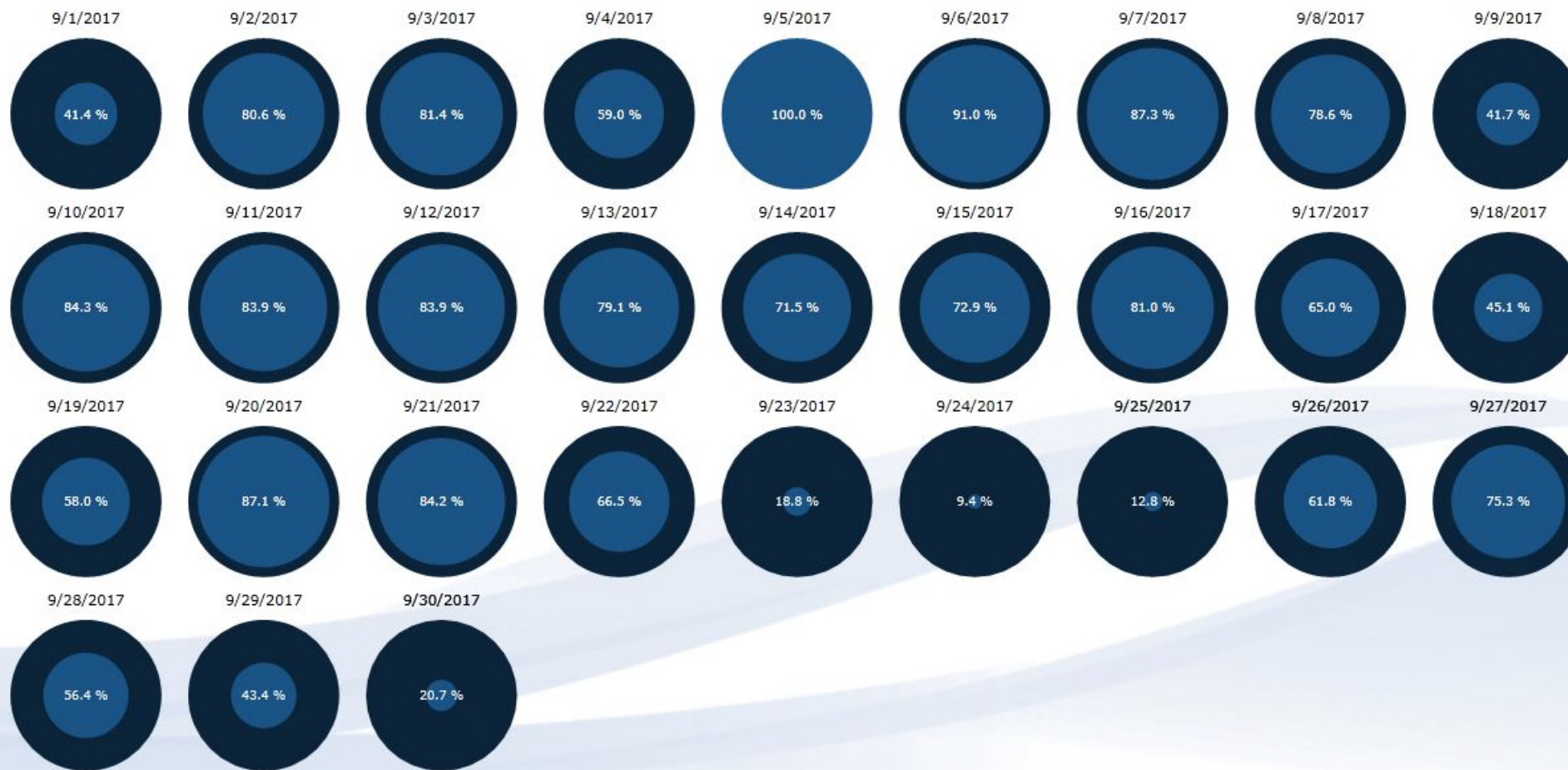
This Year
4.33
GWh

Lifetime
4.34
GWh

System Size
3.52
MW

◀	Energy Ratio		Production and Estimate		Production and Expected		Yield		Cumulative Energy		
	Energy Production Comparison		Maximum power output		Performance Ratio		Power vs. Expected		Production & Model		
	Received & Delivered		Site Performance Index		Uptime		Performance Histogram				
	Day	Five day		Week		Month		Year		Lifetime	

Seasonal Effect on Solar Generation Comparison



Now
445
W

Today
17.6
MWh

This Month
79.2
MWh

This Year
4.33
GWh

Lifetime
4.34
GWh

System Size
3.52



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- Wanted offset loads from the Waste Water Treatment Plant
- Ample land onsite to tie-in behind the meter
- Needed a transformer upgrade to handle desired solar capacity

November 2015 – Began Development

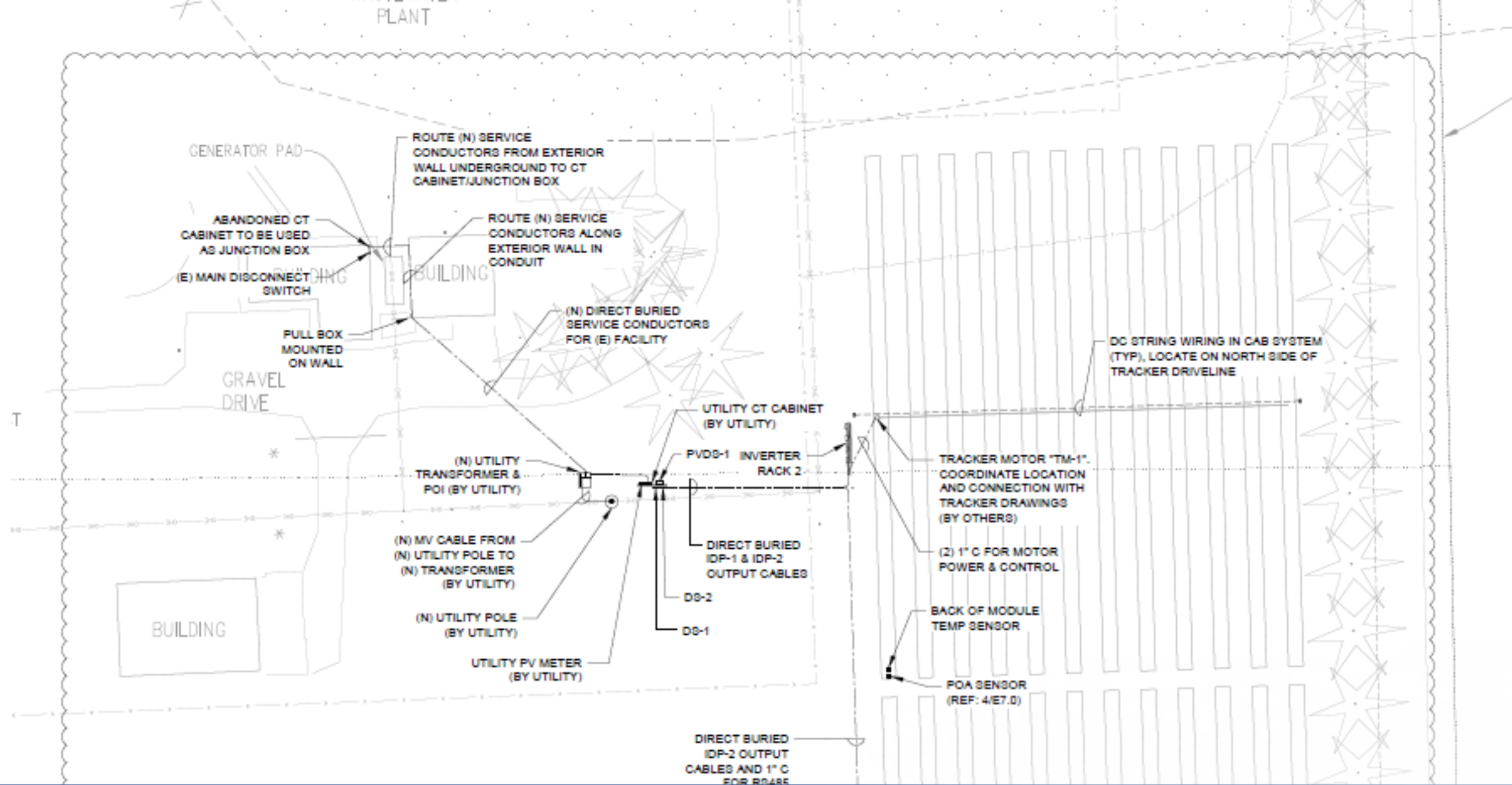
April 2017 – NTP

October 2017 – Project Live



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Aurora— 538kW



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water



energy



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Thank You.

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